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JUL 2 8 2014
PUBLIC SERVICE
COMMISSION

July 25, 2014

MR JEFF DEROUEN
EXECUTIVE DIRECTOR
PUBLIC SERVICE COMMISSION
PO BOX 615
FRANKFORT KY 40602

RE: PSC CASE NO. 2011-00450

Dear Mr. Derouen:

Please find enclosed Nolin RECC's 2013 Reliability Report and Vegetation Management Program as requested in the above referenced case. These documents have also been submitted electronically.

If you have any questions, please let me know.

Michael Z. miller

Sincerely,

Michael L. Miller President & CEO

afc

Enclosures

JUL 28 2014

PUBLIC SERVICE COMMISSION

Kentucky Public Service Commission

Electric Distribution L	Utility Annual Re	eliability Report
SECTION 1:	CONTACT INFO	RMATION
The state of the s		Maile BECE
UTILITY NAME.	_	Nolin RECC
REPORT PREPARED BY.		GDS Associates, inc. D/B/A Hi-Line Engineering
E-MAIL ADDRESS OF PREPARER	_	xton underwood@gdsassociates.com
PHONE NUMBER OF PREPARER:		770-425-B100
SECTION 2: REPO	RTING YEAR	
CALENDAR YEAR OF REPORT:	_	2013
SECTION 3: N	AAJOR EVENT D	AYS (MED)
TMED:		13 02
FIRST DATE USED TO DETERMINE TMED		1/1/2008
LAST DATE USED TO DETERMINE TMED:	_	12/31/2012
NLIMBER OF MED IN REPORT YEAR.	_	1
OTE: Per IEEE TMED should be calculated using the daily SA ears of data are not available, then utilities should use what		
SECTION 4: SYSTEM RELI	ARII ITY INTOR	MATION AND RESULTS
SECTION 4: SYSTEM RECI	MORELL CHIRCORD	TATION AND RESOLDS
	ide Information	
TOTAL CUSTOMERS34,061	101	TAL CIRCUITS86
	dlaa saPR	
	uding MED	DEDGDTING VEAD
S-YEAR AVERAGE (2008-2012)	EAIDI	REPORTING YEAR
SAIDI: 65.05 SAIFI: 0.71	SAIDI.	42 82
3AIPI; 0 71	SAIFI:	0 84
inch	uding MED	
5-YEAR AVERAGE (2008-2012)		REPORTING YEAR
SAIDI: 1931 91	SAIDI	83 35
SAIFI: 132	SAIFI:	83 35 0 91
otes [,]		
1) All duration indices (SAIDI) are to be report	ted in units of m	ninutes.
Reports are due on the first business day of	f May of each y	ear
Reports cover the calendar year ending in t		•
4) IEEE 1366 (latest version) is used to define	SAIDI, SAIFI, an	d TMED
KENTUCKY PUBLI	IC SERVIC	E COMMISSION
SECTION 6 VEGETATI		
INCLUDE CURRENT V		
See attached "Vegetation Management Prog	ram 2-18-11 No	olin docx",
		1
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tretion '	7· UTILITY COM	MENTS
SECTION 2	, OHLITCOM	INICIAL 3
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CIRCUIT #1:	COLESBURG	-1	
1, SUBSTATION NAME AND NUMBER:		COLESBURG 1	
2. SUBSTATION LOCATION (COUNTY-ROA	AD-TOWN):	HARDIN - BRADSTOWN RD CO	OLESBURG
3. CIRCUIT NAME AND NUMBER:		COLESBURG -1	
		NEW HAVEN, KY - YOUNGERS C	REEK RD./
4. CIRCUIT LOCATION (TOWN-ROAD-GEN	IERAL AREA):	DEVERS RD.	
5. TOTAL CIRCUIT LENGTH (MILES):		4D.84	
6. CUSTOMER COUNT FOR THIS CIRCUIT:		396	
7. DATE OF LAST CIRCUIT TRIM (VM):		1/23/2D13	
8. LIST OF OUTAGE(S): OUT	AGE MINUTES (% OF	TOTAL OUTAGE MINUTES):	
CONTRACTOR	5.17	PUBLIC ACCIDENTS, OTHER	23.31
EQUIPMENT / MATERIAL			
FAILURE	17.67	SMALL ANIMALS OR BIRDS	7.99
LIGHTNING	4.98	TREES	15.D4
NO CAUSE CODE	7.24	WIND, HIGH WIND	18.61
9. CIRCUIT 5 YEAR AVERAGE (SAIDI):		95.3D	
1D. REPORTING YEAR (SAIDI):		1D1.84	
11. CIRCUIT 5 YEAR AVERAGE (SAIFI):		1.11	
12. REPORTING YEAR (SAIFI):		1.D7	
13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN	Revi	iew sectionalizing on feeder.	

CIRCUIT #2:	CDLESBURG -	2	
1. SUBSTATION NAME AND NUMBER:		CDLESBURG 1	
2. SUBSTATION LOCATION (CDUNTY-R	DAD-TDWN):	HARDIN - BRADSTDWN RD CI	DLESBURG
3. CIRCUIT NAME AND NUMBER:	•	CDLESBURG-2	
		CDLESBURG, KY - BARDSTDV	VN RD./
4. CIRCUIT LDCATION (TDWN-RDAD-G	ENERAL AREA):	MDUNTAIN VIEW ESTATES	S RD.
5. TDTAL CIRCUIT LENGTH (MILES):		12,60	
6. CUSTOMER COUNT FOR THIS CIRCU	IT:	185	
7. DATE DF LAST CIRCUIT TRIM (VM):		1/23/2013	
8. LIST DF DUTAGE(S): D	UTAGE MINUTES (% DF T	DTAL DUTAGE MINUTES):	
CDNDUCTDR SAG	31.71	LIGHTNING	28.24
FARM EQUIP.	23.15	PUBLIC ACCIDENTS, DTHER	16.90
9. CIRCUIT 5 YEAR AVERAGE (SAIDI):		114.21	
10. REPDRTING YEAR (SAIDI):		50.13	
11. CIRCUIT 5 YEAR AVERAGE (SAIFI):		0.52	
12. REPDRTING YEAR (SAIFI):		0.96	
13. LIST DF CDRRECTIVE ACTION,	Inspect for missin	g guy markers to reduce public contact	, 1 *
IF ANY, TAKEN DR TD BE TAKEN			

CIRCUIT #3:	ETOWN	1-4
1. SUBSTATION NAME AND NUMBER	4:	ETOWN 2
2. SUBSTATION LOCATION (COUNTY-	ROAO-TOWN):	HAROIN - WOOOLANO OR E-TOWN
3. CIRCUIT NAME AND NUMBER:		ETOWN 1-4
4. CIRCUIT LOCATION (TOWN-ROAO-	GENERAL AREA):	ELIZABETHTOWN, KY - E. NALLS RO.
5. TOTAL CIRCUIT LENGTH (MILES):		2.37
6. CUSTOMER COUNT FOR THIS CIRC	UIT:	113
7. OATE OF LAST CIRCUIT TRIM (VM):		1/15/2014
8. LIST OF OUTAGE(S):	OUTAGE MINUTES (% (OF TOTAL OUTAGE MINUTES):
OTHER UTILITY TRANSMIS	SSION	
LINE	100	
9. CIRCUIT 5 YEAR AVERAGE (SAIOI):		4.46
10. REPORTING YEAR (SAIOI):		25.80
11. CIRCUIT 5 YEAR AVERAGE (SAIFI):		0.02
12. REPORTING YEAR (SAIFI):		1.00
13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN	None. Outage	e was on EKPC Substation/Transmission line.

CIRCUIT#4:		ETOWN 1-5		
1. SUBSTATION NAME AND NUME	BER:		ETOWN	2
2. SUBSTATION LOCATION (COUN	TY-ROAD-TOWN):	HARDIN - WOODLAND	DR E-TOWN
3. CIRCUIT NAME AND NUMBER:			ETOWN 1	l-5
			ETOWN, KY - BYPASS/ BAI	NKVIEW RD./ DIXIE
4. CIRCUIT LOCATION (TOWN-ROA	D-GENERAL ARI	EA):	RD./ FREEMAN LAN	CE PARK RD.
5. TOTAL CIRCUIT LENGTH (MILES)	:		8.53	
6. CUSTOMER COUNT FOR THIS CI	RCUIT:		454	
7. DATE OF LAST CIRCUIT TRIM (VM):		12/30/2013		
8. LIST OF OUTAGE(S):	OUTAGE MIN	UTES (% OF 1	OTAL OUTAGE MINUTES):	
EQUIPMENT / MATERI	AL		OTHER UTILITY TRANSMIS	SION
FAILURE		5.52	LINE	8.48
LIGHTNING		56.80	SMALL ANIMALS OR BIRDS	29.19
9. CIRCUIT 5 YEAR AVERAGE (SAID	1):		45.66	
10. REPORTING YEAR (SAIDI):			37.17	
11. CIRCUIT 5 YEAR AVERAGE (SAI	FI):		0.69	
12. REPORTING YEAR (SAIFI):			1.16	
13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN	Main outage v	was on EKPC!	Substation/Transmission line. Reprotection.	view overvoltage

CIRCUIT#5:	ETOWN 2-2		
1. SUBSTATION NAME AND NUMBER:			ETOWN 20
2. SUBSTATION LOCATION (COUNTY-RO	DAD-TOWN):	HARDIN - WO	OODLAND DR E-TOWN
3. CIRCUIT NAME AND NUMBER:			ETOWN 2-2
		ETOWN, KY - JO	HNSTOWN RD./ CARDINAL
4. CIRCUIT LOCATION (TOWN-ROAD-GE	NERAL AREA):	D	R./ RING RD.
5. TOTAL CIRCUIT LENGTH (MILES):		25.39	
6. CUSTOMER COUNT FOR THIS CIRCUIT	т:	405	
7. DATE OF LAST CIRCUIT TRIM (VM):		5/13/2013	
8. LIST OF OUTAGE(S): OU	JTAGE MINUTES (% OF 1	OTAL OUTAGE MINUT	ES):
EQUIPMENT / MATERIAL		OTHER UTILITY T	RANSMISSION
FAILURE	45.05	LINE	16.48
LIGHTNING	38.46		
9. CIRCUIT 5 YEAR AVERAGE (SAIDI):		161.40	
10. REPORTING YEAR (SAIDI):	•	52.99	
11. CIRCUIT 5 YEAR AVERAGE (SAIFI):		1.91	
12. REPORTING YEAR (SAIFI):		2.00	
13. LIST OF CORRECTIVE ACTION,	None. Main outage	was on EKPC Substation	n/Transmission line.
IF ANY, TAKEN OR TO BE TAKEN			

CIRCUIT #6:	ET	OWN 2-3		
1. SUBSTATION NAME AND NUMBER:			ETOWN 20	
2. SUBSTATION LOCATION (COUN	TY-ROAD-TOWN):		HARDIN - WOODLAND DR E	-TOWN
3. CIRCUIT NAME AND NUMBER:			ETOWN 2-3	
			ETOWN, KY - DEERFIELD HILL	S RD./
4. CIRCUIT LOCATION (TOWN-ROA	D-GENERAL AREA):		RINEYVILLE RD.	
5. TOTAL CIRCUIT LENGTH (MILES)	:	3	.78	
6. CUSTOMER COUNT FOR THIS CI	RCUIT:	2	90	
7. DATE OF LAST CIRCUIT TRIM (VM):		7/25	5/2012	
8. LIST OF OUTAGE(S):	OUTAGE MINUTE	S (% OF TOTA	L OUTAGE MINUTES):	
EQUIPTMENT/MATERI	AL		OTHER UTILITY TRANSMISSION	
FAILURE	9	.87	LINE	3.76
LIGHTNING	80	.69	SMALL ANIMALS OR BIRDS	5.69
9. CIRCUIT 5 YEAR AVERAGE (SAID	I):	5	.18	
10. REPORTING YEAR (SAIDI):		14	9.82	
11. CIRCUIT 5 YEAR AVERAGE (SAII	FI):	0	.05	
12. REPORTING YEAR (SAIFI):		2	.19	
13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN	Main outage was	on EKPC Subst	ration/Transmission line. Review ov protection.	ervoltage

CIRCUIT#7:	ETOW	N 2-4	
1. SUBSTATION NAME AND NUME	BER:		ETOWN 20
2. SUBSTATION LOCATION (COUN	TY-ROAD-TOWN):	HARDIN - WO	ODLAND DR E-TOWN
3. CIRCUIT NAME AND NUMBER:			ETOWN 2-4
		ETOWN, KY - RI	NG RD./ PEACH ORCHARD
4. CIRCUIT LOCATION (TOWN-ROA	AD-GENERAL AREA):		RD.
5. TOTAL CIRCUIT LENGTH (MILES):	11.96	
6. CUSTOMER COUNT FOR THIS C	RCUIT:	729	
7. DATE OF LAST CIRCUIT TRIM (V	M):	1/15/2014	
8. LIST OF OUTAGE(S):	OUTAGE MINUTES (%	OF TOTAL OUTAGE MINUTE	S):
EQUIPMENT / MATERI	AL FAILURE	44.10 TREES	49.80
OTHER UTILITY TRANS	MISSION LINE	6.11	
9. CIRCUIT 5 YEAR AVERAGE (SAID	1):	22.58	
10. REPORTING YEAR (SAIDI):		82.40	
11. CIRCUIT 5 YEAR AVERAGE (SAI	FI):	0.28	
12. REPORTING YEAR (SAIFI):		2.50	
13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN	-	(PC Substation/Transmission th should help remedy tree c	

F	FDRT KNDX-5		
1. SUBSTATION NAME AND NUMBER:		FDRT	KNDX 14
RDAD-TDWN):		HARDIN - HW	Y 313 - RADCLIFF
•		FDRT	KNDX-5
-GENERAL AREA	\) :	ETDWN, KY - BA	TTLE TRAINING RD.
		11.96	
.UIT:		245	-
:		8/8/2011	-
OUTAGE MINU	TES (% O	F TOTAL OUTAGE MINUTES):	_
=	7.15	LIGHTNING	20.32
3	36.76	SMALL ANIMALS OR I	BIRDS 3.34
	7.22	TREES	23.06
	2.14		
		42.96	
		80.52	_
:		0.41	_
	·	1.13	-
	D.		
	Ke	eview sectionalizing on reeder.	•
	R: -RDAD-TDWN): -GENERAL AREA :UIT: : OUTAGE MINU	R: -RDAD-TDWN): -GENERAL AREA): -UIT:	R: FDRT -RDAD-TDWN): HARDIN - HW FDRT -GENERAL AREA): ETDWN, KY - BA 11.96 -CUIT: 245 -: 8/8/2011

CIRCUIT #9:	GLENDALE-	2	
1. SUBSTATION NAME AND NUMBER:		GLENDALE 3	
2. SUBSTATION LOCATION (COUNTY-1	ROAD-TOWN):	HARDIN - HWY 31W - GLEI	NDALE
3. CIRCUIT NAME AND NUMBER:		GLENDALE-2	
		GLENDALE, KY - SPORTSMAN I	LAKE RD./
4. CIRCUIT LOCATION (TOWN-RDAD-0	GENERAL AREA):	DVERALL PHILLIPS RD).
5. TOTAL CIRCUIT LENGTH (MILES):	•	39.38	
6. CUSTOMER COUNT FOR THIS CIRCU	JIT:	845	
7. DATE OF LAST CIRCUIT TRIM (VM):		7/5/2011	
• • •	OUTAGE MINUTES (% OF	IDTAL OUTAGE MINUTES):	
EQUIPMENT / MATERIAL	,	•	
FAILURE	25.40	PUBLIC ACCIDENTS, OTHER	10.10
LIGHTNING	38.63	UNKNOWN CAUSE	6.38
ND CAUSE CODE	19.50		
9. CIRCUIT 5 YEAR AVERAGE (SAIDI):		83.78	
10. REPORTING YEAR (SAIDI):		114.95	
11. CIRCUIT 5 YEAR AVERAGE (SAIFI):		1.19	
12. REPORTING YEAR (SAIFI):		1.02	
13. LIST OF CORRECTIVE ACTION,	Review overvoltag	e protection and sectionalizing on feed	er.
IF ANY, TAKEN DR TD BE TAKEN	_	•	

CIRCUIT #10:	GLENDAL	E-4	
1. SUBSTATION NAME AND NUMBE	R:	GLENDA	LE 3
2. SUBSTATION LOCATION (COUNTY	/-ROAD-TOWN):	HARDIN - HWY 31V	W - GLENDALE
3. CIRCUIT NAME AND NUMBER:		GLENDALE-4	
		GLENDALE, KY - ROUNE	OTOP RD./ LICOLN
4. CIRCUIT LOCATION (TOWN-ROAL)-GENERAL AREA):	PKWY	
5. TOTAL CIRCUIT LENGTH (MILES):		52.52	
6. CUSTOMER COUNT FOR THIS CIR	_	475	
7. DATE OF LAST CIRCUIT TRIM (VM):	7/5/2011	
•		TOTAL OUTAGE MINUTES):	
EQUIPTMENT/MATERIA	L		
FAILURE	6.99	TREES	15.73
LARGE ANIMALS	37.06	UNKNOWN CAUSE	18.01
LIGHTNING	22.20		
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)	•	95.68	
10. REPORTING YEAR (SAIDI):	•	131.63	
11. CIRCUIT 5 YEAR AVERAGE (SAIF): 	1.72	
12. REPORTING YEAR (SAIFI):		1.09	
13. LIST OF CORRECTIVE ACTION,	Re	eview sectionalizing on feeder.	
IF ANY, TAKEN OR TO BE TAKEN			

CIRCUIT #11:	HODGENVILLE	<u>E-1</u>	
1. SUBSTATION NAME AND NUMBER:		HODGENVILLE 4	
2. SUBSTATION LOCATION (COUNTY-ROA	AD-TOWN):	LARUE - HWY 31E - HODGE	NVILLE
3. CIRCUIT NAME AND NUMBER:		HODGENVILLE-1	
		HODGENVILLE, KY - LEAFDALE P	RD./ SALEM
4. CIRCUIT LOCATION (TDWN-ROAD-GEN	VERAL AREA):	CHURCH RD.	
5. TOTAL CIRCUIT LENGTH (MILES):		58.33	
6. CUSTOMER COUNT FOR THIS CIRCUIT:		640	
7. DATE OF LAST CIRCUIT TRIM (VM):	201	14 (in-progress)	
8. LIST OF OUTAGE(S): OUTAGE	GE MINUTES (% OF TO	OTAL OUTAGE MINUTES):	
CABLE TV	0.00	SMALL ANIMALS OR BIRDS	11.99
EQUIPTMENT/MATERIAL			
FAILURE	36.65	TREES	2.24
LIGHTNING	24.13	TREES AND ICE	4.14
MAJOR STORM	3.90	WIND, HIGH WIND	5.38
PUBLIC ACCIDENTS, OTHER	11.57		
9. CIRCUIT 5 YEAR AVERAGE (SAIDI):		154.03	
10. REPORTING YEAR (SAIDI):		120.90	
11. CIRCUIT 5 YEAR AVERAGE (SAIFI):		1.24	
12. REPORTING YEAR (SAIFI):		2.13	
13. LIST OF CORRECTIVE ACTION,	Main outage wa	ns on EKPC Substation/Transmission line	.
IF ANY, TAKEN OR TO BE TAKEN	1110111 001000	3 Off Life 6 3463(6)(6)(1) I tells in 1886 (1)	•

CIRCUIT #12:		HOOGENVILLE	-2	
1. SUBSTATION NAME AND NUMBER:			HOOGEN	VILLE 4
2. SUBSTATION LOCATION (COUN	TY-ROAO-TO	WN):	LARUE - HWY 31E	- HOOGENVILLE
3. CIRCUIT NAME AND NUMBER:			HOOGEN	VILLE-2
			WHITE CITY, KY - CAME	BELLSVILLE RO./ MT.
4. CIRCUIT LOCATION (TOWN-ROA	O-GENERAL	AREA):	TABOR	₹ RO.
5. TOTAL CIRCUIT LENGTH (MILES)		·	58.10	
6. CUSTOMER COUNT FOR THIS CI	•		554	
7. OATE OF LAST CIRCUIT TRIM (VM):			1/13/2014	
8. LIST OF OUTAGE(S):		MINUTES (% OF 1	OTAL OUTAGE MINUTES):	
OAMAGEO MATERIAL	-	23.64	MEMBER CAUSEO	4.00
EQUIPMENT / MATERI	AL	-3.45	5	
FAILURE		33.45	SMALL ANIMALS OR BIF	
MAJOR STORM		9.94	UNKNOWN CAUSE	11.52
9. CIRCUIT 5 YEAR AVERAGE (SAID	l):		79.32	
10. REPORTING YEAR (SAIOI):			108.56	
11. CIRCUIT 5 YEAR AVERAGE (SAIFI):		0.64		
12. REPORTING YEAR (SAIFI):			2.15	
13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN	Main outa	ge was on EKPC S	ubstation/Transmission line. use.	Review animal guard

CIRCUIT #13:	HODGENVIL	LE-3	
1. SUBSTATION NAME AND NUMBER	₹:	HODGENVILLE 4	
2. SUBSTATION LOCATION (COUNTY		LARUE - HWY 31E - HODGE	NVILLE
3. CIRCUIT NAME AND NUMBER:	•	HODGENVILLE-3	
		TANNER, KY - LANDMARK DR./	S. LINCOLN
4. CIRCUIT LOCATION (TOWN-ROAD	-GENERAL AREA):	BLVD./ TANNER RD.	
5. TOTAL CIRCUIT LENGTH (MILES):	•	36.93	
6. CUSTOMER COUNT FOR THIS CIRC	CUIT:	407	
7. DATE OF LAST CIRCUIT TRIM (VM)	*	5/22/2013	
B. LIST OF OUTAGE(S):	OUTAGE MINUTES (% OF	TOTAL OUTAGE MINUTES):	
EQUIPMENT / MATERIAL			
FAILURE	14.63	SMALL ANIMALS OR BIRDS	6.06
MAINTENANCE	23.76	UNKNOWN CAUSE	26.27
MAJOR STORM	5.71	WIND, HIGH WIND	12.40
MEMBER CAUSED	11.15		
9. CIRCUIT 5 YEAR AVERAGE (SAIDI):		85.32	
10. REPORTING YEAR (SAIDI):		114.79	
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)	:	0.66	
12. REPORTING YEAR (SAIFI):		2.14	
13. LIST OF CORRECTIVE ACTION,	Main outage w	as on EKPC Substation/Transmission line	•
IF ANY, TAKEN OR TO BE TAKEN			

CIRCUIT #14:		HODGENVILLE	-4	
1. SUBSTATION NAME AND NUMBER:			HODGENVILLE 4	
2. SUBSTATION LOCATION (COUNT	ry-road-to	WN):	LARUE - HWY 31E - HODGE	NVILLE
3. CIRCUIT NAME AND NUMBER:			HODGENVILLE-4	
			TONIEVILLE, KY - OLD ETOWN R	D./ CARTER
4. CIRCUIT LOCATION (TOWN-ROA	D-GENERAL	AREA):	BROTHERS RD.	
5. TOTAL CIRCUIT LENGTH (MILES)		·-	25.81	
6. CUSTOMER COUNT FOR THIS CI	RCUIT:		333	
7. DATE OF LAST CIRCUIT TRIM (VM	¬ا: ا∨):		1/10/2013	
8. LIST OF OUTAGE(S):	OUTAGE I	MINUTES (% OF 7	TOTAL OUTAGE MINUTES):	
EQUIPMENT / MATERIA	AL	-		
FAILURE		21.07	MAJOR STORM	12.17
FARM EQUIP.		15.28	SMALL ANIMALS OR BIRDS	27.00
LIGHTNING		11.42	UNKNOWN CAUSE	13.06
9. CIRCUIT S YEAR AVERAGE (SAIDI	1):		97.01	
10. REPORTING YEAR (SAIDI):	_		103.05	
11. CIRCUIT 5 YEAR AVERAGE (SAIF			1.18	
12. REPORTING YEAR (SAIFI):	_		2.03	
· · · [Main outage		ubstation/Transmission line. Inspect for ers to reduce public contact.	r missing guy

CIRCUIT #15:		HODGENVILLE	:-5	
1. SUBSTATION NAME AND NUMBER:			HODGENVILLE 4	
2. SUBSTATION LOCATION (COUNT	Y-ROAD-T	OWN):	LARUE - HWY 31E - HODGE	NVILLE
3. CIRCUIT NAME AND NUMBER:			HODGENVILLE-5	
			HODGENVILLE, KY - CARTER BRO	THERS RD./
4. CIRCUIT LOCATION (TOWN-ROA	D-GENERA	L AREA):	DAN DUNN RD.	
5. TOTAL CIRCUIT LENGTH (MILES):		·	60.78	
6. CUSTOMER COUNT FOR THIS CIP	RCUIT:		434	
7. DATE OF LAST CIRCUIT TRIM (VN	и) :	201	14 (in-progress)	
8. LIST OF OUTAGE(S):	· · · —		TOTAL OUTAGE MINUTES):	
EQUIPTMENT/MATERIA	AL			
FAILURE		27.70	MAJOR STORM	4.45
FIRE		4.51	SMALL ANIMALS OR BIRDS	11.62
ICE		4.18	TREES	16.13
LIGHTNING		19.28	UNKNOWN CAUSE	12.11
9. CIRCUIT 5 YEAR AVERAGE (SAIDI	i):		60.07	
10. REPORTING YEAR (SAIDI):			128.84	
11. CIRCUIT 5 YEAR AVERAGE (SAIF	FI):	0.54		
12. REPORTING YEAR (SAIFI):			2.27	
	B.fain out	ago was on EVDC	Substation/Transmission line Boulevy	ovoroltago
13. LIST OF CORRECTIVE ACTION,	IVIAIII OUI		Substation/Transmission line. Review (overonage
IF ANY, TAKEN OR TO BE TAKEN	I	pro	etection and sectionalizing.	

CIRCUIT #16:	LOGSDON-	·5	
1. SUBSTATION NAME AND NUMBER:		LOGSDON 18	
2. SUBSTATION LOCATION (COUNTY-	-ROAD-TOWN):	HARDIN - CAROLYN CT - RA	DCLIFF
3. CIRCUIT NAME AND NUMBER:	•	LOGSDON-5	
		RADCLIFF, KY - W. VINE ST./ S.	LOGSDON
4. CIRCUIT LOCATION (TOWN-ROAD-	-GENERAL AREA):	PKWY	
5. TOTAL CIRCUIT LENGTH (MILES):	·	6.30	
6. CUSTOMER COUNT FOR THIS CIRC	:UIT:	518	
7. DATE OF LAST CIRCUIT TRIM (VM):	:	1/11/2013	
		TOTAL OUTAGE MINUTES):	
EQUIPMENT / MATERIAL	•	•	
FAILURE	50.89	SMALL ANIMALS OR BIRDS	14.39
LIGHTNING	10.68	UNKNOWN CAUSE	9.64
MEMBER CAUSED	14.39		
9. CIRCUIT 5 YEAR AVERAGE (SAIDI):		8.59	
10. REPORTING YEAR (SAIDI):		12.79	
11. CIRCUIT 5 YEAR AVERAGE (SAIFI):	•	0.18	
12. REPORTING YEAR (SAIFI):		0.31	
13. LIST OF CORRECTIVE ACTION,	Rev	view sectionalizing on feeder.	
IF ANY, TAKEN OR TO BE TAKEN	·		

CIRCUIT #17:	MAGNOLIA-	1	
1. SUBSTATION NAME AND NUMBER:		MAGNOLIA 5	
2. SUBSTATION LOCATION (COUNTY-ROA	(D-TOWN):	LARUE - NEW JACKSON HWY - N	MAGNOLIA
3. CIRCUIT NAME AND NUMBER:	•	MAGNOLIA-1	
		SHERMAN, KY - BAILEY RD./ GR	EENSBURG
4. CIRCUIT LOCATION (TOWN-ROAD-GEN	IERAL AREA):	RD.	
5. TOTAL CIRCUIT LENGTH (MILES):	·	103.94	
6. CUSTOMER COUNT FOR THIS CIRCUIT:		979	
7. DATE OF LAST CIRCUIT TRIM (VM):		7/17/2012	
•	AGE MINUTES (% OF	TOTAL OUTAGE MINUTES):	
EQUIPMENT / MATERIAL			
FAILURE	9.05	NO CAUSE CODE	14.64
FIRE	2.26	PUBLIC ACCIDENTS, OTHER	8.28
ICE	10.12	TREES	24.62
LIGHTNING	23.04	TREES AND ICE	6.07
MAJOR STORM	1.91		
9. CIRCUIT 5 YEAR AVERAGE (SAIDI):		151.02	
10. REPORTING YEAR (SAIDI):		209.71	
11. CIRCUIT 5 YEAR AVERAGE (SAIFI):		1.34	
12. REPORTING YEAR (SAIFI):		2.13	
		- "	
13. LIST OF CORRECTIVE ACTION,	Review sectional	izing on feeder. Review ROW conditions	5.
IF ANY, TAKEN OR TO BE TAKEN			

CIRCUIT #18:	MAGNOL	.1A-2	
1. SUBSTATION NAME AND NUMB	ER:		MAGNOLIA 5
2. SUBSTATION LOCATION (COUN	TY-ROAD-TOWN):	LARUE - NI	EW JACKSON HWY - MAGNOLIA
3. CIRCUIT NAME AND NUMBER:	·		MAGNOLIA-2
		SHERM	IAN, KY - MT. SHERMAN RD./
4. CIRCUIT LOCATION (TOWN-ROA	D-GENERAL AREA):		JACKSON RD.
5. TOTAL CIRCUIT LENGTH (MILES)	·	25	
6. CUSTOMER COUNT FOR THIS CI		178	
7. DATE OF LAST CIRCUIT TRIM (VI	_	6/24/2011	
8. LIST OF OUTAGE(S):	OUTAGE MINUTES (% C		INUTES):
EQUIPTMENT/MATERI	•		
FAILURE	44.47	MEMBER CA	AUSED 5.3
ICE	15.82	Trees	25.8
MAJOR STORM	8.48		
9. CIRCUIT 5 YEAR AVERAGE (SAID		55.84	
10. REPORTING YEAR (SAIDI):		242.15	
11. CIRCUIT 5 YEAR AVERAGE (SAI	FI):	1.00	
12. REPORTING YEAR (SAIFI):		2.86	
13. LIST OF CORRECTIVE ACTION,	Main outage was on EKP		ission line. Review sectionalizing
IF ANY, TAKEN OR TO BE TAKEN		on feeder.	

CIRCUIT #19:		MAGNOLIA-	3	
1. SUBSTATION NAME AND NUMBER:		MAGNO	LIA 5	
2. SUBSTATION LOCATION (COUNT	ry-road-town	i):	LARUE - NEW JACKSON	HWY - MAGNOLIA
3. CIRCUIT NAME AND NUMBER:			MAGNO	LIA-3
			MAGNDLIA, KY - UPI	ON TALLEY RD./
4. CIRCUIT LOCATION (TOWN-ROA	D-GENERAL ARI	EA):	MAXINE	RD.
5. TOTAL CIRCUIT LENGTH (MILES)	:		55.9	
6. CUSTOMER COUNT FOR THIS CI	RCUIT:		403	
7. DATE OF LAST CIRCUIT TRIM (VM	vi):		2/19/2013	
8. LIST OF OUTAGE(5):	OUTAGE MIN	UTES (% OF 1	TOTAL OUTAGE MINUTES):	
EQUIPTMENT/MATERIA	AL			
FAILURE		18.55	NO CAUSE CODE	1.06
FARM EQUIP.		3.18	SMALL ANIMALS OR BIRD	DS 3.87
LIGHTNING		40.96	TREE5	20.24
MAJOR STORM		4.35	UNKNOWN CAUSE	7.79
9. CIRCUIT 5 YEAR AVERAGE (SAIDI	I):		68.20	
10. REPORTING YEAR (SAIDI):			183.18	
11. CIRCUIT 5 YEAR AVERAGE (SAIF	FI):		0.97	
12. REPORTING YEAR (SAIFI):	<u></u>		2.20	
13 LICT OF CORRECTIVE ACTION	Main outage	was on EKPC	Substation/Transmission line.	Review overoltage
13. LIST OF CORRECTIVE ACTION,		pro	tection and sectionalizing.	
IF ANY, TAKEN OR TO BE TAKEN		•	_	

CIRCUIT #20:	MAGNOLI	A-4	
1. SUBSTATION NAME AND NUMBER:		MAGNOLIA 5	
2. SUBSTATION LOCATION (COUN	TY-ROAD-TOWN):	LARUE - NEW JACKSON HWY - 1	MAGNOLIA
3. CIRCUIT NAME AND NUMBER:		MAGNOLIA-4	
		TANNER, KY - NEW JACKSON	I HWY/
4. CIRCUIT LOCATION (TOWN-ROA	AD-GENERAL AREA):	HAWKINS RD./ AIRLINE	RD.
5. TOTAL CIRCUIT LENGTH (MILES):	76.88	
6. CUSTOMER COUNT FOR THIS C	RCUIT:	488	
7. DATE OF LAST CIRCUIT TRIM (V	M):	5/2/2011	
8. LIST OF OUTAGE(S):	OUTAGE MINUTES (% O	F TOTAL OUTAGE MINUTES):	
EQUIPMENT / MATERI	AL		
FAILURE	24.43	PUBLIC ACCIDENTS, OTHER	0.01
LIGHTNING	11.28	SMALL ANIMALS OR BIRDS	9.95
MAJOR STORM	36.43	TREES	11.17
NO CAUSE CODE	6.74		
9. CIRCUIT 5 YEAR AVERAGE (SAID	01):	45.64	
10. REPORTING YEAR (SAIDI):	-	59.59	
11. CIRCUIT 5 YEAR AVERAGE (SAI	FI):	0.63	
12. REPORTING YEAR (SAIFI):		1.15	
13. LIST OF CORRECTIVE ACTION, IF ANY TAKEN OR TO BE TAKEN	<u>-</u>	Substation/Transmission line. Review an and sectionalizing on feeder.	imal guards

CIRCUIT #21:		SMITHERSVILLE	1-3		
1. SUBSTATION NAME AND NUMB	ER:		SMITHERSVILLE 13	3	
2. SUBSTATION LOCATION (COUNT	Y-ROAD-TOV	NN):	HARDIN -W.A. JENKINS RD.	IN -W.A. JENKINS RD E-TOWN	
3. CIRCUIT NAME AND NUMBER:		·	SMITHERSVILLE 1-3	3	
			RINEYVILLE, KY - HWY 447/	DECKARD	
4. CIRCUIT LOCATION (TOWN-ROA	D-GENERAL A	AREA):	SCHOOL RD.		
5. TOTAL CIRCUIT LENGTH (MILES):	:		27.00		
6. CUSTOMER COUNT FOR THIS CIP	RCUIT:		831		
7. DATE OF LAST CIRCUIT TRIM (VM	л): <u> </u>	201	4 (In-progress)		
8. LIST OF OUTAGE(S):	OUTAGE M	INUTES (% OF T	OTAL OUTAGE MINUTES):		
CONTRACTOR		4.75	NO CAUSE CODE	4.26	
EQUIPMENT / MATERIA	AL				
FAILURE		12.48	PUBLIC ACCIDENTS, OTHER	3.18	
FIRE		3.03	SMALL ANIMALS OR BIRD5	5.28	
LIGHTNING		28.86	TREES	8.22	
MAJOR STORM		29.94			
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)):		14.31		
10. REPORTING YEAR (SAIDI):	_		1.57		
11. CIRCUIT 5 YEAR AVERAGE (SAIF	1):		0.44		
12. REPORTING YEAR (SAIFI):			0.49		
13. LIST OF CORRECTIVE ACTION,		Review anima	I guards and sectionalizing on feeder.		
IF ANY, TAKEN OR TO BE TAKEN					

CIRCUIT #22:	SMITHERSVILLE	1-4	
1. SUBSTATION NAME AND NUMBER:		SMITHERSVILLE 13	
2. SUBSTATION LOCATION (COUNT	Y-ROAD-TOWN):	HARDIN -W.A. JENKINS RD	E-TOWN
3. CIRCUIT NAME AND NUMBER:	·	SMITHERSVILLE 1-4	,
		RINEYVILLE, KY - WILSON RD./ E	300NE RD./
4. CIRCUIT LOCATION (TOWN-ROAD	D-GENERAL AREA):	HUTCHERON RD.	
S. TOTAL CIRCUIT LENGTH (MILES):	·	17.56	
6. CUSTOMER COUNT FOR THIS CIR		843	
7. DATE OF LAST CIRCUIT TRIM (VM	t):	7/17/2012	
8. LIST OF OUTAGE(S):	OUTAGE MINUTES (% OF T		
EQUIPMENT / MATERIA	ıL .	•	
FAILURE	17.64	PUBLIC ACTIVITIES, OTHER	29.62
LIGHTNING	16.14	UNKNOWN CAUSE	4.49
NO CAUSE CODE	18.30	WIND, HIGH WIND	13.81
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)) :	83.44	
10. REPORTING YEAR (SAIDI):	***	61.62	
11. CIRCUIT 5 YEAR AVERAGE (SAIFI	1):	0.82	
12. REPORTING YEAR (SAIFI):		1.15	
· · · [Out.		
13. LIST OF CORRECTIVE ACTION,	Primary outage causes wer	re for new road construction via a plant	ned outage
IF ANY, TAKEN OR TO BE TAKEN		and a failed insulator.	

CIRCUIT #23:	SMITHERSVILLE	2-2	
1. SUBSTATION NAME AND NUMBER:		SMITH	ERSVILLE 17
2. SUBSTATION LOCATION (COUNTY-R	(OAD-TOWN):	HARDIN -W.A. J	ENKINS RD E-TOWN
3. CIRCUIT NAME AND NUMBER:	•	SMITH	ERSVILLE 2-2
		RINEYVILLE, KY - V	V.A. JENKINS RD./ DIXIE
4. CIRCUIT LOCATION (TOWN-ROAD-G	JENERAL AREA):		HWY
5. TOTAL CIRCUIT LENGTH (MILES):		0.49	
6. CUSTOMER COUNT FOR THIS CIRCU	AT:	18	_
7. DATE OF LAST CIRCUIT TRIM (VM):		6/23/2014	_
8. LIST OF OUTAGE(S): O	JUTAGE MINUTES (% OF T	TOTAL OUTAGE MINUTES):	
EQUIPMENT / MATERIAL			
FAILURE	100		
9. CIRCUIT S YEAR AVERAGE (SAIDI):		2.43	
10. REPORTING YEAR (SAIDI):		43.03	
11. CIRCUIT 5 YEAR AVERAGE (SAIFI):		0.04	_
12. REPORTING YEAR (SAIFI):		1.06	<u> </u>
13. LIST OF CORRECTIVE ACTION,	Main outage was	s on EKPC Substation/Trans	smission line.
IF ANY, TAKEN OR TO BE TAKEN			

CIRCUIT #24:	SMIT	HERSVILLE	2-3	
1. SUBSTATION NAME ANO NUMBER:			SMITHERSVILL	.E 17
2. SUBSTATION LOCATION (COUN	TY-ROAO-TOWN):		HAROIN -W.A. JENKINS	RO E-TOWN
3. CIRCUIT NAME AND NUMBER:		SMITHERSVILLE 2-3		E 2-3
			RINEYVILLE, KY - W.A. JEN	KINS RO./ OIXIE
4. CIRCUIT LOCATION (TOWN-ROA	O-GENERAL AREA)	:	HWY/ TERESA	RO.
5. TOTAL CIRCUIT LENGTH (MILES)	:		11.68	- .
6. CUSTOMER COUNT FOR THIS CI	RCUIT:		635	
7. OATE OF LAST CIRCUIT TRIM (VI	M):		6/23/2014	
8. LIST OF OUTAGE(S):	OUTAGE MINUT	ES (% OF	TOTAL OUTAGE MINUTES):	
EQUIPMENT / MATERI	AL	•	•	
FAILURE	28	3.51	TREES	29.71
NO CAUSE COOE	10	0.88	WINO, HIGH WINO	5.31
PUBLIC ACCIDENTS, OT	THER 25	5.60		
9. CIRCUIT 5 YEAR AVERAGE (SAIO			7.40	
10. REPORTING YEAR (SAIOI):			23.09	
11. CIRCUIT S YEAR AVERAGE (SAI	FI):			
12. REPORTING YEAR (SAIFI):			0.94	
13. LIST OF CORRECTIVE ACTION,	Review sectionali	_	eder. The tree trimming performe	d in 2014 should
IF ANY, TAKEN OR TO BE TAKEN	help mitigate tree caused outages.			

CIRCUIT #25:		STEPHENSBUR	G-2	
1. SUBSTATION NAME AND NUMBER:			STEPHENSBURG 6	
2. SUBSTATION LOCATION (COU	NTY-ROAD-1	rown):	HARDIN-LEITCHFIELD RD-STEP	HENSBURG
3. CIRCUIT NAME AND NUMBER		•	STEPHENSBURG-2	
			WHITE HILLS, KY - SONORA HAR	DIN SPRINGS
4. CIRCUIT LOCATION (TOWN-RO	DAD-GENER/	AL AREA):	RD.	
5. TOTAL CIRCUIT LENGTH (MILE	:S):		42.16	·
6. CUSTOMER COUNT FOR THIS	CIRCUIT:	· · · · · · · · · · · · · · · · · · ·	254	
7. DATE OF LAST CIRCUIT TRIM (VM):	201	14 (in-progress)	
8. LIST OF OUTAGE(S):	OUTAG	E MINUTES (% OF	TOTAL OUTAGE MINUTES):	
CONDUCTOR SAG		7.46	MEMBER CAUSED	4.59
EQUIPTMENT/MATE	RIAL			
FAILURE		9.76	NO CAUSE CODE	12.06
			OTHER UTILITY TRANSMISSION	
FIRE		3.27	LINE	3.56
ICE		12.17	SMALL ANIMALS OR BIRDS	6.08
LIGHTNING		12.51	UNKNOWN CAUSE	6.89
MAJOR STORM		21.64		
9. CIRCUIT S YEAR AVERAGE (SAI	IDI):		76.15	
10. REPORTING YEAR (SAIDI):			274.80	
11. CIRCUIT 5 YEAR AVERAGE (SA	AIFI):		1.13	
12. REPORTING YEAR (SAIFI):			2.16	
13. LIST OF CORRECTIVE ACTION	· L	Main outage war	s on EKPC Substation/Transmission line	!.
IF ANY, TAKEN OR TO BE TAKEN	į.			

CIRCUIT #26:		STEPHENSBURG-	3	
1. SUBSTATION NAME AND NUMBER:			STEPHENSBERG-3	
2. SUBSTATION LOCATION (COUNT	Y-ROAD-TO	WN):	HARDIN-LEITCHFIELD RD-STEPH	ENSBURG
3. CIRCUIT NAME AND NUMBER:		•	STEPHENSBURG-3	
			STEPHENSBERG, KY - LEITCHFII	ELD RD./
			SONORA HARDIN SPRINGS RD./ V	VEBB MILLS
4. CIRCUIT LOCATION (TOWN-ROA	D-GENERAL	AREA):	RD.	
5. TOTAL CIRCUIT LENGTH (MILES):) i		69.89	
6. CUSTOMER COUNT FOR THIS CIF	RCUIT:		560	
7. DATE OF LAST CIRCUIT TRIM (VM):		2014 (in-progress)		
8. LIST OF OUTAGE(S):	OUTAGE N	AINUTES (% OF TO	TAL OUTAGE MINUTES):	
EQUIPMENT / MATERIA	AL		OTHER UTILITY TRANSMISSION	
FAILURE		27.58	LINE	4.96
MAJOR STORM		27.74	PUBLIC ACCIDENTS, OTHER	2.96
NO CAUSE CODE		24.38	UNKNOWN CAUSE	12.39
9. CIRCUIT 5 YEAR AVERAGE (SAID!):		72.94	
10. REPORTING YEAR (SAIDI):	_	65.02		
11. CIRCUIT 5 YEAR AVERAGE (SAIF	1):		0.91	
12. REPORTING YEAR (SAIFI):		1.15		
13. LIST OF CORRECTIVE ACTION,	!	Main outage was o	on EKPC Substation/Transmission line.	
IF ANY, TAKEN OR TO BE TAKEN				

CIRCUIT #27:	STEPHENSBI	URG-4	
1. SUBSTATION NAME AND NUMBE	ER:	STEPHENSBU	URG 6
2. SUBSTATION LOCATION (COUNT	/Y-ROAD-TOWN):	HARDIN-LEITCHFIELD RE	D-STEPHENSBURG
3. CIRCUIT NAME AND NUMBER:	-	STEPHENSBU	JRG -4
		EASTVIEW, KY - SONORA	HARDIN SPRINGS
4. CIRCUIT LOCATION (TOWN-ROA	D-GENERAL AREA):	RD./ EASTVIE	
5. TOTAL CIRCUIT LENGTH (MILES):		74.43	
6. CUSTOMER COUNT FOR THIS CIF		572	
7. DATE OF LAST CIRCUIT TRIM (VM	vi): :	2014 (in-progress)	
8. LIST OF OUTAGE(S):	· ———	OF TOTAL OUTAGE MINUTES):	
EQUIPTMENT/MATERIA	•	· · · · · · · · · · · · · · · · · · ·	
FAILURE	48.12	TREES	12.55
LIGHTNING	17.21	UNKNOWN CAUSE	12.86
OTHER UTILITY TRANSM	MISSION		
LINE	2.75	WIND, HIGH WIND	6.52
9. CIRCUIT 5 YEAR AVERAGE (SAIDI	<i>i</i>):	44.74	
10. REPORTING YEAR (SAIDI):	•	127.04	
11. CIRCUIT 5 YEAR AVERAGE (SAIF	AI):	0.75	
12. REPORTING YEAR (SAIFI):	•	2.95	
Ţ		(DCC) betation (Transmission line)	Constant trium min a
13. LIST OF CORRECTIVE ACTION,	-	KPC Substation/Transmission line. (
IF ANY, TAKEN OR TO BE TAKEN	should mitigate tree	caused outages. Review overvolta	ge protection.

CIRCUIT #28:	STEPHENSBURG	<u></u>	
1. SUBSTATION NAME AND NUMBER:		STEPHENSBURG 6	
2. SUBSTATION LOCATION (COUNTY-RO	DAD-TOWN):	HARDIN-LEITCHFIELD RD-STEP	HENSBURG
3. CIRCUIT NAME AND NUMBER:		STEPHENSBURG-5	
		STEPHENSBURG, KY - EASTVIEW	RD./ NACKE
4. CIRCUIT LOCATION (TOWN-ROAD-GE	ENERAL AREA):	PIKE RD.	
5. TOTAL CIRCUIT LENGTH (MILES):		70.83	
6. CUSTOMER COUNT FOR THIS CIRCUI	T:	597	
7. DATE OF LAST CIRCUIT TRIM (VM):	201	4 (in-progress)	
8. LIST OF OUTAGE(S): OU	UTAGE MINUTES (% OF T	OTAL OUTAGE MINUTES):	
EQUIPMENT / MATERIAL		OTHER UTILITY TRANSMISSION	
FAILURE	21.73	LINE	1.93
LIGHTNING	14.17	SMALL ANIMALS OR BIRDS	4.05
MAJOR STORM	7.85	TREES	15.01
MEMBER CAUSED	2.27	UNKNOWN CAUSE	6.91
NO CAUSE CODE	19.30	WATER COMPANY	6.79
9. CIRCUIT 5 YEAR AVERAGE (SAIDI):		51.40	
10. REPORTING YEAR (5AIDI):		52.82	
11. CIRCUIT 5 YEAR AVERAGE (SAIFI):		0.83	
12. REPORTING YEAR (SAIFI):		1.17	
	Básin subsequence	FURG Cultabation /Turnamissian line	
13. LIST OF CORRECTIVE ACTION,	Main outage was	on EKPC Substation/Transmission line	!•
IF ANY, TAKEN OR TO BE TAKEN			

CIRCUIT #29:	THARP-2-2		
1. SUBSTATION NAME AND NUMBER:	THARP 22		
2. SUBSTATION LOCATION (COUNTY-RO	AD-TOWN):	HARDIN - ST. JDHN RD ET	OWN
3. CIRCUIT NAME AND NUMBER:		THARP-2-2	
		ELIZABETHTOWN, KY - SAINT JO	OHN RD./
4. CIRCUIT LOCATION (TOWN-ROAD-GEI	NERAL AREA):	KING ARTHUR RD.	
5. TOTAL CIRCUIT LENGTH (MILES):		27.00	
6. CUSTOMER COUNT FOR THIS CIRCUIT	:	538	
7. DATE OF LAST CIRCUIT TRIM (VM):		7/25/2012	
8. LIST OF OUTAGE(S): OU	TAGE MINUTES (% OF	TOTAL OUTAGE MINUTES):	
EQUIPMENT / MATERIAL		OTHER UTILITY TRANSMISSION	
FAILURE	51.36	LINE	5.86
LIGHTNING	24.80	PUBLIC ACCIDENTS, OTHER	17.98
9. CIRCUIT 5 YEAR AVERAGE (SAIDI):		66.96	
10. REPORTING YEAR (SAIDI):		105.79	
11. CIRCUIT 5 YEAR AVERAGE (SAIFI):		0.81	
12. REPORTING YEAR (SAIFI):		2.01	
13. LIST OF CORRECTIVE ACTION,	Main outage wa	s on EKPC Substation/Transmission line.	
IF ANY, TAKEN OR TO BE TAKEN			

CIRCUIT #30:	THA	RP-2-3	
1. SUBSTATION NAME AND NUMBE	ER:	THARP 22	
2. SUBSTATION LOCATION (COUNT	Y-ROAD-TOWN):	HARDIN - ST. JOHN RD E	TOWN
3. CIRCUIT NAME AND NUMBER:		THARP-2-3	
		ELIZABETHTOWN, KY - SAINT	JOHN RD./
4. CIRCUIT LOCATION (TOWN-ROAI	D-GENERAL AREA):	RING RD./ WEST PARK	RD.
5. TOTAL CIRCUIT LENGTH (MILES):		0.91	
6. CUSTOMER COUNT FOR THIS CIR	CUIT:	1	
7. DATE OF LAST CIRCUIT TRIM (VM	1):	9/13/2012	
8. LIST OF OUTAGE(S):	OUTAGE MINUTES	(% OF TOTAL OUTAGE MINUTES):	
OTHER UTILITY TRANSM	IISSION		
LINE	100	0	
9. CIRCUIT 5 YEAR AVERAGE (SAID!)	:	6.60	
10. REPORTING YEAR (SAIDI):		25.80	
11. CIRCUIT 5 YEAR AVERAGE (SAIFI):		0.20	
12. REPORTING YEAR (SAIFI):		1.00	
	A 4 - 5 - 4	FUNDO LA LA LA TRANSPORTA DE LA CASA DE LA C	
13. LIST OF CORRECTIVE ACTION,	Main out	age was on EKPC Substation/Transmission line	:-
IF ANY, TAKEN OR TO 8E TAKEN			

CIRCUIT #31:	THARP-2-4		
1. SUBSTATION NAME AND NUMBER:		TI	HARP 22
2. 5UBSTATION LOCATION (COUNTY-ROAD	-TOWN):	HARDIN - ST.	JDHN RD ETOWN
3. CIRCUIT NAME AND NUMBER:	•	TH	IARP-2-4
			i, KY - SAINT JOHN RD./ o./ LANGLEY TRACE/
4. CIRCUIT LOCATION (TOWN-ROAD-GENER	RAL AREA):	CHARLE	MAGNE BLVD.
5. TOTAL CIRCUIT LENGTH (MILES):		1.53	
6. CUSTOMER COUNT FOR THIS CIRCUIT:		11B	_
7. DATE OF LAST CIRCUIT TRIM (VM):		7/25/2012	_
8. LIST OF OUTAGE(S): OUTAGE	GE MINUTES (% OF T	OTAL OUTAGE MINUTES).	.
OTHER UTILITY TRANSMISSION			
LINE	100		
9. CIRCUIT 5 YEAR AVERAGE (SAIDI):		51.59	
10. REPORTING YEAR (SAIDI):		25.80	_
11. CIRCUIT 5 YEAR AVERAGE (SAIFI):		0.66	_
12. REPORTING YEAR (SAIFI):		1.00	<u> </u>
13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN	Main outage was	on EKPC Substation/Tran	smission line.

CIRCUIT #32:	THARP-3		
1. SUBSTATION NAME AND NUMBER:	THARP 12		
2. SUBSTATION LOCATION (COUNTY-RO)AD-TOWN):	HARDIN - ST. JOHN RD E	TOWN
3. CIRCUIT NAME AND NUMBER:		THARP-3	
		ELIZABETHTOWN, KY - SAINT	IOHN RD./
4. CIRCUIT LOCATION (TOWN-ROAD-GE	NERAL AREA):	RING RD.	
5. TOTAL CIRCUIT LENGTH (MILES):	·	1.13	
6. CUSTOMER COUNT FOR THIS CIRCUIT	Γ:	10	
7. DATE OF LAST CIRCUIT TRIM (VM):	<u> </u>	9/13/2012	
8. LIST OF OUTAGE(S): OL	JTAGE MINUTES (% OF	TOTAL OUTAGE MINUTES):	
OTHER UTILITY TRANSMISSI	ON		
LINE	60,91	PUBLIC ACCIDENTS, OTHER	39.09
9. CIRCUIT 5 YEAR AVERAGE (SAIDI):		25.03	
10. REPORTING YEAR (SAIDI):		29.82	
11. CIRCUIT 5 YEAR AVERAGE (SAIFI):		0.22	
12. REPORTING YEAR (SAIFI):		1.10	
43. HOT OF CORDECTIVE ACTION	Bitala autago ur	an an EVDC Culabation (Transmission line	
13. LIST OF CORRECTIVE ACTION,	iviain outage w	as on EKPC Substation/Transmission line	•
IF ANY, TAKEN OR TO BE TAKEN			

CIRCUIT#33:	THARP-4			
1. SUBSTATION NAME AND NUMBER:			THARP 12	
2. SUBSTATION LOCATION (COUNT	TY-ROAD-TO	WN):	HARDIN - ST. JOHN RD E	TOWN
3. CIRCUIT NAME AND NUMBER:			THARP-4	
			ELIZABETHTOWN, KY - SAINT	JOHN RD./
4. CIRCUIT LOCATION (TOWN-ROA	AD-GENERAL	AREA):	THOMAS RD.	
5. TOTAL CIRCUIT LENGTH (MILES)			31.33	
6. CUSTOMER COUNT FOR THIS CI	RCUIT:		525	
7. DATE OF LAST CIRCUIT TRIM (VM	M):		8/20/2012	
8. LIST OF OUTAGE(S):	OUTAGE 1	VINUTES (% OF T	TOTAL DUTAGE MINUTES):	
LIGHTNING		70.31	PUBLIC ACCIDENTS, OTHER	9.83
OTHER UTILITY TRANSI	MISSION			
LINE		9.39	UNKNOWN CAUSE	10.48
9. CIRCUIT 5 YEAR AVERAGE (SAID	4):		50.88	
10. REPORTING YEAR (SAIDI):	_	28.08		
11. CIRCUIT 5 YEAR AVERAGE (SAII	FI): _	FI): 0.73		
12. REPORTING YEAR (SAIFI):			1.04	
13. LIST OF CORRECTIVE ACTION,	Main outa	ge was on EKPC !	Substation/Transmission line. Review of protection.	overvoltage

CIRCUIT #34:	THARP-	-5	
1. SUBSTATION NAME AND NUMBER	:	т	THARP 12
2. SUBSTATION LOCATION (COUNTY-	ROAD-TOWN):	HARDIN - ST.	JOHN RD ETOWN
3. CIRCUIT NAME AND NUMBER:			THARP-5
		ELIZABETHTOW	N, KY - SAINT JOHN RD./
4. CIRCUIT LOCATION (TOWN-ROAD-	GENERAL AREA):	RING RD.	/ WEST PARK RD.
5. TOTAL CIRCUIT LENGTH (MILES):		0.71	
6. CUSTOMER COUNT FOR THIS CIRC	UIT:	9	
7. DATE OF LAST CIRCUIT TRIM (VM):		9/13/2012	
8. LIST OF OUTAGE(S):	OUTAGE MINUTES (% C	OF TOTAL OUTAGE MINUTES):
OTHER UTILITY TRANSMIS	SSION		
LINE	100		
9. CIRCUIT 5 YEAR AVERAGE (SAIDI):		24.60	
10. REPORTING YEAR (SAIDI):	 -	25.80	
11. CIRCUIT 5 YEAR AVERAGE (SAIFI):		0.20	
12. REPORTING YEAR (SAIFI):		1.00	_
13. LIST OF CORRECTIVE ACTION,	Main outage	was on EKPC Substation/Trai	nsmission line.
IF ANY, TAKEN OR TO BE TAKEN	_		

CIRCUIT #35:	TUNNEL HILL 1-1		1-1	-
1. SUBSTATION NAME AND NUMBER: 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): 3. CIRCUIT NAME AND NUMBER:			TUNN	IEL HILL 11
		HARDIN - TUNNEL HILL RD E-TOWN		
		-	TUNNEL HILL 1-1	
4. CIRCUIT LOCATION (TOWN-ROA	D-GENERAL	AREA):	ETOWN, KY - DOLPH	IIN RD./ COMMERCE DR.
5. TOTAL CIRCUIT LENGTH (MILES)	_		3.24	
6. CUSTOMER COUNT FOR THIS CIRCUIT:			441	<u> </u>
7. DATE OF LAST CIRCUIT TRIM (VM):		3/1/2013		
8. LIST OF OUTAGE(S):	OUTAGE N	MINUTES (% OF	TOTAL OUTAGE MINUTES):	
EQUIPTMENT/MATERIAL FAILURE		56.86	MAJOR STORM	22.88
FIRE		5.56	WIND, HIGH WIND	14.71
9. CIRCUIT 5 YEAR AVERAGE (SAIDI):			0.74	
10. REPORTING YEAR (SAIDI):			160.04	
11. CIRCUIT S YEAR AVERAGE (SAIFI):		·	0.09	_
12. REPORTING YEAR (SAIFI):		0.74		
13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN	Undergroun	d primary fault	caused a long outage resto restoration procedures.	ration time. Review step

CIRCUIT #36:		TUNNEL HILL	2-3		
1. SUBSTATION NAME AND NUMBER:		TUNNEL HILL 19			
2. SUBSTATION LOCATION (COUNT		WN):	HARDIN - TUNNEL HILL RD	HARDIN - TUNNEL HILL RD E-TOWN	
3. CIRCUIT NAME AND NUMBER:		·	TUNNEL HILL 2-3		
			ETOWN, KY - TUNNEL HILL CH	URCH RD./	
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA):		SAINT JOHN RD.			
5. TOTAL CIRCUIT LENGTH (MILES)			60.84		
6. CUSTOMER COUNT FOR THIS CI			1047		
7. DATE OF LAST CIRCUIT TRIM (VM	∧):		2/12/2013		
8. LIST OF OUTAGE(S):	OUTAGE	MINUTES (% OF 1	OTAL OUTAGE MINUTES):		
EQUIPMENT / MATERIA	AL.				
FAILURE		13.68	SMALL ANIMALS OR BIRDS	2.04	
LIGHTNING		8.09	SWITCHING OUTAGE	5.00	
NO CAUSE CODE		30.15	TREES	28.09	
PUBLIC ACCIDENTS, OT	HER	12.95			
9. CIRCUIT 5 YEAR AVERAGE (SAID)):		12.76		
10. REPORTING YEAR (SAIDI):	_	13.44			
11. CIRCUIT S YEAR AVERAGE (SAIF	1):	0.14			
12. REPORTING YEAR (SAIFI):			0.10		
Į					
13. LIST OF CORRECTIVE ACTION,	Significan	tly below system	average outage time. No actions reco	mmended.	
IF ANY, TAKEN OR TO BE TAKEN					

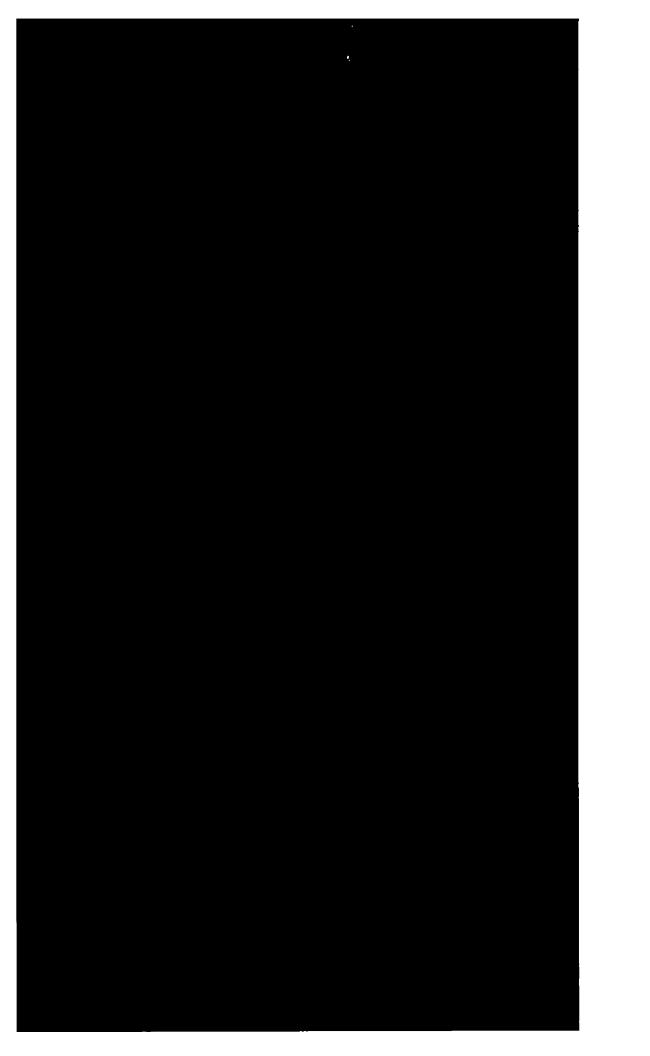
CIRCUIT #37:	RINEYVILLE	E-4		
1. SUBSTATION NAME AND NUMBER:		RINEYVILLE 21		
2. SUBSTATION LOCATION (COUNT	/Y-ROAD-TOWN):	HARDIN - BERRYTOWN RD F	HARDIN - BERRYTOWN RD RINEYVILLE	
3. CIRCUIT NAME AND NUMBER:		RINEYVILLE-4		
		RINEYVILLE, KY - BERRYTOWN	RD./ BLUE	
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA):		BALL RD.	· 	
5. TOTAL CIRCUIT LENGTH (MILES)	·	48.23		
6. CUSTOMER COUNT FOR THIS CIT	RCUIT:	379		
7. DATE OF LAST CIRCUIT TRIM (VM	√l): <u>2</u> ′	2014 (in-progress)		
8. LIST OF OUTAGE(S):	OUTAGE MINUTES (% OF	F TOTAL OUTAGE MINUTES):		
EQUIPMENT / MATERIA	AL			
FAILURE	39.49	MAJOR 5TORM	19.61	
LIGHTNING	27.49	SMALL ANIMALS OR BIRDS	13.40	
9. CIRCUIT 5 YEAR AVERAGE (SAID)	1):	44.17		
10. REPORTING YEAR (SAIDI):		95.04		
11. CIRCUIT 5 YEAR AVERAGE (SAIF	A):	0.65		
12. REPORTING YEAR (SAIFI):		0.63		
13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN	Main outage was on EKPC	Substation/Transmission line. Review se on feeder.	ectionalizing	

CIRCUIT #38:	VERTREES-1			
1. SUBSTATION NAME AND NUMBER:		VI	ETREES 8	
2. SUBSTATION LOCATION (COUNTY-ROA	AD-TOWN):	HARDIN - SALT	HARDIN - SALT RIVER RD VERTREES	
3. CIRCUIT NAME AND NUMBER:	-	VE	RTREES-1	
		VERTREES, KY	- HARDINSBURG RD./	
4. CIRCUIT LOCATION (TOWN-ROAD-GEN	√ERAL AREA):		CONSTANTINE RD.	
5. TOTAL CIRCUIT LENGTH (MILES):		44.85		
6. CUSTOMER COUNT FOR THIS CIRCUIT:	÷	332	_	
7. DATE OF LAST CIRCUIT TRIM (VM):	4/	/11/2012	_	
	TAGE MINUTES (% OF TOT	TAL OUTAGE MINUTES)	j :	
EQUIPMENT / MATERIAL				
FAILURE	54.05	TREES	26.59	
OTHER UTILITY TRANSMISSIO	NC			
LINE	19.36			
9. CIRCUIT 5 YEAR AVERAGE (SAIDI):		51.28		
10. REPORTING YEAR (SAIDI):		40.70	_	
11. CIRCUIT 5 YEAR AVERAGE (SAIFI):		0.48	_	
12. REPORTING YEAR (SAIFI):		1.01		
13. LIST OF CORRECTIVE ACTION,	Main outage was o	on EKPC Substation/Tran	rsmission line.	
IF ANY, TAKEN OR TO BE TAKEN				

CIRCUIT #39:	VERTREES	-2		
1. SUBSTATION NAME AND NUMBER:		VERTREES 8	3	
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN):		HARDIN - SALT RIVER RE	HARDIN - SALT RIVER RD VERTREES	
3. CIRCUIT NAME AND NUMBER:		VERTREES-2		
		VERTREES, KY - SALT RIVER I	RD./ SAINT JOHN	
4. CIRCUIT LOCATION (TOWN-ROA	ND-GENERAL AREA):	RD.		
5. TOTAL CIRCUIT LENGTH (MILES)	:	59.73		
6. CUSTOMER COUNT FOR THIS CI	RCUIT:	447		
7. DATE OF LAST CIRCUIT TRIM (VM):		4/11/2012		
8. LIST OF OUTAGE(S):	OUTAGE MINUTES (% OF	TOTAL OUTAGE MINUTES):		
EQUIPMENT / MATERI	AL	OTHER UTILITY TRANSMISSI	ON	
FAILURE	8.53	LINE	2.16	
LIGHTNING	17.13	TREES	29.81	
MAJOR STORM	3.70	UNKNOWN CAUSE	2.41	
MEMBER CAUSED	3.93	WIND, HIGH WIND	15.52	
NO CAUSE CODE	16.81			
9. CIRCUIT 5 YEAR AVERAGE (SAID	l):	75.44		
10. REPORTING YEAR (SAIDI):		87.50		
11. CIRCUIT 5 YEAR AVERAGE (SAI	FI):	1.00		
12. REPORTING YEAR (SAIFI):		1.33		
13. LIST OF CORRECTIVE ACTION,	•	C Substation/Transmission line. Revi	ew overvoltage	

CIRCUIT #40:	VERTREES-4			
1. SUBSTATION NAME AND NUMBER:		VERTRE	ES 8	
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN):		HARDIN - SALT RIVE	R RD VERTREES	
3. CIRCUIT NAME AND NUMBER:		VERTRE	ES-4	
		VERTREES, KY - HARDII	VSBURG RD./ LONG	
4. CIRCUIT LOCATION (TOWN-ROA	AD-GENERAL AREA):	GROVE	RD.	
5. TOTAL CIRCUIT LENGTH (MILES)		41.23		
6. CUSTOMER COUNT FOR THIS CI		486		
7. DATE OF LAST CIRCUIT TRIM (VI	M):	4/11/2012		
8. LIST OF OUTAGE(S):	OUTAGE MINUTES (% OF	TOTAL OUTAGE MINUTES):		
EQUIPMENT / MATERI				
FAILURE	24.38	NO CAUSE CODE	20.22	
		OTHER UTILITY TRANSMISSIO		
FIRE	10.09	LINE	2.96	
LIGHTNING	9.87	TREES	5.84	
MAJOR STORM	13.81	UNKNOWN CAUSE	4.65	
MEMBER CAUSED	8,19			
9. CIRCUIT 5 YEAR AVERAGE (SAID	l):	31.22		
10. REPORTING YEAR (SAIDI):	·	85.07		
11. CIRCUIT 5 YEAR AVERAGE (SAI	FI):	0.41		
12. REPORTING YEAR (SAIFI):		1.38		
13. LIST OF CORRECTIVE ACTION,	Main outage was on EKPC	Substation/Transmission line. R on feeder.	eview sectionalizing	

CIRCUIT#41:	WILLIAMS-1	<u> </u>		
1. SUBSTATION NAME AND NUMBER: 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN):		WILLIAMS 16		
		HARDIN - BARDSTOWN RD	HARDIN - BARDSTOWN RD E-TOWN	
3. CIRCUIT NAME AND NUMBER:	•	WILLIAMS-1		
		ELIZABETHTOWN, KY - BARDST	OWN RD./	
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA):		LINCOLN RD.	LINCOLN RD.	
5. TOTAL CIRCUIT LENGTH (MILES):	·	75.47		
6. CUSTOMER COUNT FOR THIS CIRCUIT:		805		
7. DATE OF LAST CIRCUIT TRIM (VM):		12/23/2013		
8. LIST OF OUTAGE(S): OUT	AGE MINUTES (% OF	TOTAL OUTAGE MINUTES):		
EQUIPMENT / MATERIAL				
FAILURE	8.58	NO CAUSE CODE	2.65	
LIGHTNING	28.82	SMALL ANIMALS OR BIRDS	7.52	
MEMBER CAUSED	0.88	TREES	51.5\$	
9. CIRCUIT 5 YEAR AVERAGE (SAIDI):		61.21		
10. REPORTING YEAR (SAIDI):	<u> </u>	26.35		
11. CIRCUIT 5 YEAR AVERAGE (SAIFI):		0.88		
12. REPORTING YEAR (SAIFI):		1.04		
13. LIST OF CORRECTIVE ACTION,	Review sect	ionalizing on feeder. Review ROW.		
IF ANY, TAKEN OR TO BE TAKEN				



Vegetation Management Program

Definitions of Terms Used in Standard

This section includes newly defined or revised terms used in this standard. New or revised definitions, listed below, become approved when the standard is placed in operation. When the standard becomes effective, these defined terms will be removed from the individual standard and added to the Glossary.

Fire Risk: The likelihood that a fire will ignite or spread in a particular geographic area.

Flashover: An electrical discharge through air around or over the surface of insulation, between objects of different potential, caused by placing a voltage across the air space that results in the ionization of the air space.

IEEE: Institute of Electrical and Electronics Engineers, Inc.

Vegetation Inspection: The systematic examination of a distribution corridor to document vegetation conditions.

Operating Voltage: The voltage level by which an electrical system is designated and to which certain operating characteristics of the system are related; also, the effective (root-mean-square) potential difference between any two conductors or between a conductor and the ground. The actual voltage of the circuit may vary somewhat above or below this value.

Rated Electrical Operating Conditions: The specified or reasonably anticipated conditions under which the electrical system or an individual electrical circuit is intend/designed to operate.

Right-of-Way (ROW): A corridor of land on which electric lines may be located. The distribution owner may own the land in fee, own an easement, or have certain franchise, prescription, or license rights to construct and maintain lines.

Sustained Outage: The de-energized condition of a distribution line resulting from a fault or disturbance following an unsuccessful automatic reclosing sequence and/or unsuccessful manual reclosing procedure.

Distribution Line: A system of structures, wires, insulators and associated hardware that carry electric energy from one point to another in an electric power system. Lines are operated at relatively high voltages varying from 120 V up to 7.2 kV, and are capable of transmitting quantities of electricity over long distances.

Vegetation: All plant material, growing or not, living or dead.

Introduction

Purpose:

To improve the reliability of the electric distribution systems by preventing outages from vegetation located on distribution rights-of-way (ROW) and minimizing outages from vegetation located adjacent to ROW, maintaining clearances between distribution lines and vegetation on and along distribution ROW.

This standard is developed for all distribution lines operated at 7.2 kV and to any lower voltage lines designated by the Nolin Rural Electric Cooperative Corporation (RECC) as critical to the reliability of the electric system in the region.

Requirements:

- 1) Nolin RECC will periodically review, and keep current, the formal distribution vegetation management program. The review will include the evaluation of objectives, practices, approved procedures, work specifications, and evaluation of SAIDI, SAIFI, CAIDI, and CAIFI. The outage management system (OMS) will collect information from the automated meter reading (AMR) system, supervisory control and data acquisition (SCADA) and input from the on-duty dispatcher for evaluation.
- 2) The plan defines a schedule for ROW vegetation inspections. This schedule will be flexible enough to adjust for changing conditions. The inspection schedule is based on the anticipated growth of vegetation and any other environmental or operational factors that could impact the relationship of vegetation to the Nolin RECC's distribution lines.
- 3) Encourage public outreach to educate the public, in general, about the use and acceptance of vegetation management on rights-of-way.
- 4) Nolin RECC will, during initial installation, identify clearances between vegetation and any overhead, ungrounded supply conductors, taking into consideration the line voltage, the effects of ambient temperature on conductor sag under maximum design loading, the configuration and insulated value of the line, and the effects of wind velocities on conductor sway. Specifically, Nolin RECC will establish clearances to be achieved at the time of vegetation management work to maintain a set of clearances identified to prevent flashover between vegetation and overhead-ungrounded supply conductors. Nolin RECC shall determine appropriate clearance distances to be achieved at the time of distribution vegetation management work based upon: operating voltage, appropriate vegetation management techniques, fire risk, reasonably anticipated tree and conductor movement, species types and growth rates, species failure characteristics, local climate and rainfall patterns, line terrain and elevation, location of the vegetation within the span, and worker approach distance requirements.

- Nolin RECC will determine specific radial clearances to be maintained between vegetation and conductors under all rated electrical operating conditions. These minimum clearance distances are necessary to prevent flashover between vegetation and conductors and may vary due to such factors as has been stated. Nolin RECC shall develop mitigation measures to achieve sufficient clearances for the protection of the distribution facilities when it identifies locations on the ROW where it is restricted from attaining the clearances specified in this Requirement.
- 6) All personnel directly involved in the design and implementation of the Vegetation Management Program shall hold appropriate qualifications and training, as defined by Nolin RECC, to perform their duties.
- 7) Nolin RECC shall establish a process for the communication of vegetation conditions that present an imminent threat of an outage to a distribution line. This is so action may be taken (temporary reduction in line's consumers, switching line out of service, etc.) until the threat is relieved.
- 8) Nolin RECC shall create and implement an annual plan for vegetation management work to ensure the reliability of the system. The plan shall describe the methods used, such as manual clearing, mechanical clearing, herbicide treatment, or other actions. The plan should be flexible enough to adjust to changing conditions, taking into consideration the anticipated growth of vegetation and other environmental factors that may have an impact on the reliability of the distribution systems. Adjustments to the plan shall be documented as they occur. The plan should take into consideration the time required to obtain permissions or permits from landowners or regulatory authorities. Each procedure for documenting and tracking the planned vegetation management work and ensuring that the vegetation management work was completed according to work specifications.

Compliance to the Requirements

- 1. The overall 'Vegetation Management Plan' will be evaluated annually to establish the progress of the plans' past year improvement against prior years. The comparison will include outage data of specific feeders, overall system outages, record keeping process of outage tickets, time response to outage lengths, comparison of funds to lines lengths and type of work done, and AMR's blink reports. Each year the progress of the plan will be evaluated; deviations, deficiencies or improvements will be made for the following year, and work procedures will be considered.
- 2. The inspection and right of clearing schedule will be 3 years in dense housing areas (approximately 14 consumers per mile), fast growing tree (locust, sycamore etc.) areas and in areas where trimming maybe limited (historic sites, national forest, and sensitive environmental areas). Other areas will be on the normal 5-year cycle.
- 3. An article describing the need for right of way maintenance, safety issues associated with live electric lines and trees, and proper tree selection for planting near electric lines will be mailed to all consumer's service address.
- 4. During System inspection, employees working on existing facilities will make calls to the dispatcher about tree trimming or removal of trouble areas that may not comply with the RUS standard that is set forth in M1.30G "Right of way clearing guide" and standards set by the National Electrical Safety Code in Section 23. If no imminent danger exists, the dispatcher will generate a Work Order Ticket for the correction of the problem.
- 5. Staking sheets will have notes associated for tree trimming or removal with dimensions from the centerline of the line construction. The notes will remain with the staking sheets throughout the construction phase and final inspection of the jobs. The dimensions will comply with the RUS standard that is set forth in M1.30G "Right of way clearing guide" and standards set in the National Electrical Safety Code in Section 23.
- 6. Employees will have annual training on the RUS standards and National Electrical Safety Code relating to line construction and safety issues.
- 7. The dispatcher will be available 24 hours a day to take calls, make work order tickets, and dispatch employees for imminent danger of hazards to the public.
- 8. An overall system map will be color coded for work to be done each year. The map will be a base for planning and an estimate for budget numbers. The cost of various methods right of way control will be used as the land and environment dictate. Each year, during the planning period, an evaluation of outages and outages data will be used to set an estimated budget number. During the Budget planning, a dollar figure will be set aside for the various methods of right of way control. The areas, as budget permits, will be designated as to method and length of lines to be done.